

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the instant application:

**Listing of Claims:**

1. (Previously Presented) A method for restricting resources consumed by ghost agents within a grid computing environment, comprising the steps of:

identifying a host, wherein said host is a software object operating within said grid environment and movable from one grid to another grid within the grid environment;

associating a ghost agent -with said host, wherein said ghost agent is configured to execute at least one operation, wherein said operation comprises replicating and recording at least one action of said host, and wherein the ghost agent follows the movement of the associated host;

identifying computing resources used by the ghost agent;

determining a usage value for each computing resource used by the ghost agent;

calculating a resource utilization value for said ghost agent based on usage values determined for individual computing resources;

comparing said resource utilization value to a usage threshold value pre-established for the ghost agent, wherein the usage threshold value defines a maximum resource utilization value permitted; and

reducing a quantity of the computing resources used by the ghost agent if it is determined that the resource utilization value exceeds the usage threshold value.

2. (Previously presented) The method of claim 1, wherein said calculating step comprises calculating a summation, the greatest value, or an average of the determined

usage values.

3 (Previously presented) The method of claim 1, wherein said reducing step further comprises the steps of:

deactivating said ghost agent;  
starting an idle timer; and,  
reactivating said ghost agent when a current time of said idle timer exceeds a predetermined time threshold.

4. (Previously presented) The method of claim 3, wherein said reducing step further comprises the steps of:

queuing attempted operations of the ghost agent during deactivation; and  
executing operations from the queue after the ghost agent is reactivated.

5. (Previously presented) The method of claim 1, wherein the reducing step further comprises the step of:

categorizing operations of the ghost agent into having a low resource requirement or a high resource requirement based on pre-determined criteria; and  
restricting to execution of operations that have a low resource requirement.

6.-20. (Cancelled).